IN THE CLAIMS:

Please cancel claim 27 as follows:

1. (previously presented)   A method implemented by at least one computer for encoding knowledge, comprising the steps of:
forming a network having nodes that represent semantic concepts;
associating one or more words with one or more of the nodes;
5   associating multimedia content with one or more of the nodes; and
representing relationships between the nodes as arcs between associated words and arcs between associated multimedia content.

2. (original)   The method of Claim 1, further comprising:
creating lexical relations between semantic concepts on the basis of one or more of: word forms and word meaning of associated words.

3. (original)   The method of Claim 1, wherein relationships between semantic concepts and between associated content are based at least in part on audio and/or visual feature descriptor values.

4. (original)   The method of Claim 3, further comprising:
extracting feature descriptors from multimedia content; and
computing similarity measures between descriptor values.

5. (original)   The method of Claim 1, wherein the media network knowledge is represented using the ISO MPEG-7 Description Definition Language.

6. (previously presented)   A method implemented by at least one computer for searching an encoded media network knowledge representation that comprises a network having nodes that represent semantic concepts, one or more words and multimedia associated with
5   the one or more nodes, and wherein relationships between the nodes are represented as arcs between associated words and arcs between associated multimedia content, the method comprising the steps of:
accepting a query;
matching the query to the words and multimedia content related
10   to the concepts encoded in the media network knowledge

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representation;

navigating the relationship arcs of the concepts associated
with matching words and multimedia content; and

retrieving related concepts, words, and multimedia content from
15   the matched nodes or related nodes.

7. (original)   The method of Claim 6, further comprising:
forming a query comprised of words; and

matching the query words to the words encoded in the media
network knowledge representation.

8. (original)   The method of Claim 6, further comprising:
forming a query comprised of multimedia content; and

matching the query content to the multimedia content encoded in
the media network knowledge representation.

9. (previously presented)   The method of Claim 6, further
comprising:

forming a query comprised of audio and/or visual feature descriptor
values, wherein the feature descriptor values denote proximity to the
5   semantic concepts of the nodes; and

matching the query descriptor values to the descriptor values of the
content encoded in the media network knowledge representation.

10. (original)   A method for browsing an encoded media network
knowledge representation that comprises a network having nodes that
represent semantic concepts, one or more words and multimedia associated
with the one or more nodes, and wherein relationships between the nodes
5   are represented as arcs between associated words and arcs between
associated multimedia content, the method comprising the steps of:

displaying one or more concept nodes and associated words and/or
multimedia content; and

providing means for allowing a user to select related concepts for
10   viewing.

11. (original)   The method of Claim 10, further comprising:
providing means for allowing the user to select concept nodes and
associated words and/or multimedia content for display on the basis of

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specific types or values of relations to a particular concept node or
5   associated word or multimedia content.

    12. (previously presented)   A method implemented by at least one
computer for summarizing an encoded media network knowledge representation
that comprises a network having nodes that represent semantic concepts,
one or more words and multimedia associated with the one or more nodes,
5   and wherein relationships between the nodes are represented as arcs
between associated words and arcs between associated multimedia content,
the method comprising the steps of:
        extracting a subset of nodes, relations, and words and/or multimedia
content from an encoded media network knowledge representation.

    13. (original)   The method of Claim 12, further comprising:
        consolidating together concept nodes, relations, words, and/or
multimedia content.

    14. (previously presented)   A method implemented by at least one
computer for updating an encoded media network knowledge representation
that comprises a network having nodes that represent semantic concepts,
one or more words and multimedia associated with the one or more nodes,
5   and wherein relationships between the nodes are represented as arcs
between associated words and arcs between associated multimedia content,
the method comprising the steps of:
        adding, deleting or modifying concepts, relations, or associated
words, multimedia content, or descriptors in the encoded media network
10   knowledge representation.'

    15. (previously presented)   A method implemented by at least one
computer for querying a multimedia information repository associated with
an encoded media network knowledge representation that comprises an
encoded network having nodes that represent semantic concepts, one or more
5   words and multimedia associated with the one or more nodes, and wherein
relationships between the nodes are represented as arcs between associated
words and arcs between associated multimedia content, the method
comprising the steps of:
        searching the encoded media network knowledge representation;

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10   retrieving words, content, and/or descriptors from the media network
knowledge representation; and

searching the information repository using the retrieved words,
content, and/or descriptors.

16. (previously presented)   A method implemented by at least one
computer for personalizing multimedia information in a system comprising
an encoded media network knowledge representation that includes an encoded
network having nodes that represent semantic concepts, one or more words
5   and multimedia associated with the one or more nodes, and wherein
relationships between the nodes are represented as arcs between associated
words and arcs between associated multimedia content, the method
comprising the steps of:

describing the multimedia information using words or descriptors;
10   describing user preferences using words, multimedia content, and/or
descriptors;

matching the user preferences with the descriptions of the
multimedia information; and extracting, retrieving, and/or summarizing the
matched multimedia items.

17. (original)   A system for encoding knowledge, comprising:

means for forming a network having logical nodes that represent
semantic concepts;

means for associating one or more words with one or more of the
5   nodes;

means for associating multimedia content with one or more of the
nodes; and

means for representing relationships between the nodes as arcs
between associated words and arcs between associated multimedia content.

18. (original)   The system of claim 17, further comprising means
for searching the knowledge encoded in the network.

19. (original)   The system of claim 17, further comprising means
for browsing the knowledge encoded in the network.

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20. (original)   The system of claim 17, further comprising means for updating the knowledge encoded in the network.

21. (original)   The system of claim 17, further comprising means for summarizing the knowledge encoded in the network.

22. (original)   The system of claim 17, further comprising means for querying a multimedia information repository associated with the knowledge encoded in the network.

23. (original)   The system of claim 17, further comprising means for personalizing the knowledge encoded in the network for a particular user.

24. (original)   A computer program product in a computer readable medium for use for encoding knowledge, the computer program product comprising:

first instructions for forming a network having logical nodes that
5   represent semantic concepts;

second instructions for associating one or more words with one or more of the nodes;

third instructions for associating multimedia content with one or more of the nodes; and
10   fourth instructions for representing relationships between the nodes as arcs between associated words and arcs between associated multimedia content.

25. (previously presented)   The method of claim 1, wherein the relationships between the nodes are based, at least in part, on the features of the multimedia content.

26. (previously presented)   The method of claim 1, wherein the relationships between the nodes denote similarity of semantic concepts.

27. (canceled)

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